

Description

The HDS-S is the compact starter solution for water-based density separation from WIMA and is designed to separate lightweight material from heavy material.

The machine can be divided into the following main parts:

- Separation chamber (with impeller)
- Discharge conveyor for light weight material
- Auger for heavy material

The material is fed into the separation chamber. Heavy materials settle down due to their density. An auger takes the heavy material out of the water bath. Through this shaftless auger materials up to a size of 150 mm can be transported without problems.

With the adjustable impeller we create an up-flow. With this adjustable water flow it is possible to discharge materials with a density above 1 g/cm³ into the light fraction. The water lifts the light fraction onto the conveyor belt, the water drains through that belt back into the process and the light material is transported out.

The smaller the size ratio of the largest to the smallest grain, the better the density separation process.

To integrate the HDS-S more easily into your process, the HDS-S is available in two versions. Floating materials discharge to the right or the left.

There are two types of discharge conveyor and an optional wind sifter for the feeding area available.

Features and applications

Description	<ul style="list-style-type: none"> • The HDS-S is the compact starter solution for water-based density separation from WIMA • Low operating costs • Plug and Play
Applications	<ul style="list-style-type: none"> • Compost screen overflow, construction and demolition materials



HDS-S

Technical Data

Technical Details

Dimensions

<u>Lenght, auger</u>	<u>5.468 mm</u>
<u>Width, auger</u>	<u>max. 971 mm</u>
<u>Discharge height, auger</u>	<u>approx. 1.600 mm</u>
<u>Length, discharge conveyor,</u>	<u>max. 2.900 mm</u>
<u>Width, discharge conveyor,</u>	<u>max. 1.483 mm</u>
<u>Discharge height, discharge conveyor,</u>	<u>ca. 1.900 mm</u>
<u>Material feed height,</u>	<u>approx. 1.750 mm</u>



Weights

<u>Separation chamber with frame</u>	<u>1.300 kg</u>
<u>Auger with trough</u>	<u>1.330 kg</u>
<u>Discharge conveyor</u>	<u>470 kg</u>
<u>Overall weight</u>	<u>3.100 kg</u>



Water

<u>Quality</u>	<u>Service water</u>
<u>Water quantity (first filling)</u>	<u>approx. 3 m³</u>



Electrical power

<u>Power supply</u>	<u>400 VAC (3Ph/N/PE)</u>
<u>Frequency</u>	<u>50 – 60 Hz</u>
<u>Protection class</u>	<u>IP 44</u>
<u>Control voltage</u>	<u>24 VDC</u>
<u>Power plug</u>	<u>63 A CEE</u>

